



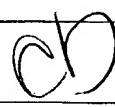
# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/030,160	01/30/2002	Takeshi Miyakawa	218222US0PCT	1444
22850	7590	05/11/2004	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			CHEVALIER, ALICIA ANN	
			ART UNIT	PAPER NUMBER
			1772	

DATE MAILED: 05/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/030,160	MIYAKAWA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Alicia Chevalier	1772	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 05 March 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 10-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 10-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **RESPONSE TO AMENDMENT**

1. Claims 10-15 is/are pending in the application, claims 1-9 were cancelled in the response filed March 5, 2004.
2. Amendments to the abstract and claims, filed on March 5, 2004, have been entered in the above-identified application.

### ***WITHDRAWN REJECTIONS***

3. The objection to the abstract made of record in paper #6, mailed March 31, 2003, page 2, paragraph 2 have been withdrawn due to Applicant's amendment and arguments in the response filed March 5, 2004.
4. The 35 U.S.C. §112 rejections of claims 1-9, made of record in paper #6, pages 3-4, paragraph 4 have been withdrawn due to Applicant's amendment and arguments in the response filed March 5, 2004.
5. The 35 U.S.C. §102 rejection of claims 1-9 over Miyawaka et al. (US Patent No. 5,415,906), made of record in paper #6, page 5, paragraph #6 has been withdrawn due to Applicant's amendment in the response filed March 5, 2004.

### ***NEW REJECTIONS***

6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

***Claim Objections***

7. Claim 15 objected to because of the following informalities: "105/mm" should be "105 N/mm" because the specification always defines the tear strength in terms of N/mm and "as defined the Japanese Industrial Standard" should be "as defined *in* the Japanese Industrial Standard." These informalities appear to be typographical errors and correction is required.

***Claim Rejections - 35 USC § 102***

8. Claims 10-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyamoto (JP Patent No. 08258888).

Regarding Applicant's claim 10, Miyamoto discloses an embossed tape (*title*) which comprises a sheet having a tear strength of at least 105 N/mm as defined in Japanese Industrial Standard K-7128-3, since the reference discloses that the tape has a tear strength of 100 kg/cm or more, which is equivalent to 98 N/mm or more (*machine translation page 2, line 6*). The tape further comprises at least one thermoplastic resin other than a polyphenylene ether resin, since the reference discloses that the sheet is made of an ethylene-alpha olefin copolymer (*machine translation page 2, line 8*).

Regarding Applicant's claim 11, Miyamoto discloses that the sheet has a surface resistance of at least one surface of at most  $10^{12} \Omega/\square$ , since the reference discloses that the surface-electrical-resistance values of a glue line are below  $10^{13} \Omega/\square$  (*machine translation page 2, lines 15-16*) and preferably below  $10^{10} \Omega/\square$  (*machine translation page 3, lines 13-14*).

Regarding Applicant's claim 12, Miyamoto discloses the sheet is a single-layer sheet (*reference #4 in figure 2*), since the reference discloses that the sheet is made of an ethylene-

alpha olefin copolymer (*machine translation page 2, line 8*). Furthermore, since claim 12 is dependent on claim 10 that claims a "tape which **comprises**," which is open language, it is moot that Miyamoto discloses additional layers not claimed.

Regarding Applicant's claim 13, Miyamoto discloses the sheet is a multi-layer sheet, since the reference discloses that the tape comprises a biaxially oriented polyester layer, an ethylene-alpha olefin copolymer layer and an adhesive (*machine translation page 2, lines 5-13 and figure 2*).

Regarding Applicant's claim 14, Miyamoto discloses the sheet has a base layer and an electrically conductive layer, since the reference discloses that the tape comprises a biaxially oriented polyester layer, i.e. a base layer, and an adhesive combined with a conductive powder, i.e. an electrically conductive layer (*machine translation page 2, lines 5-15 and figure 2*).

Regarding Applicant's claim 15, Miyamoto discloses an embossed carrier tape (*title*) which comprises a sheet comprising a thermoplastic resin, since the reference discloses that the sheet is made of an ethylene-alpha olefin copolymer (*machine translation page 2, line 8*). The sheet has a base layer and a surface layer having a surface resistance of at most  $10^{12} \Omega/\square$  on both sides of the base layer, since the reference discloses that the tape comprises a biaxially oriented polyester layer, i.e. a base layer, and an adhesive combined with a conductive powder, i.e. an electrically conductive layer (*machine translation page 2, lines 5-15 and figure 2*) and that the surface-electrical-resistance values of a glue line are below  $10^{13} \Omega/\square$  (*machine translation page 2, lines 15-16*) and preferably below  $10^{10} \Omega/\square$  (*machine translation page 3, lines 13-14*). The sheet also having a tear strength of at least 105 N/mm as defined the Japanese Industrial Standard

Art Unit: 1772

K-7128-3, since the reference discloses that the tape has a tear strength of 100 kg/cm or more, which is equivalent to 98 N/mm or more (*machine translation page 2, line 6*).

### ***ANSWERS TO APPLICANT'S ARGUMENTS***

9. Applicant's arguments in the response filed March 5, 2004 regarding the 35 U.S.C. 112 and 102 rejections of record have been considered but are moot due to the new grounds of rejection.

### ***Conclusion***

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Art Unit: 1772

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

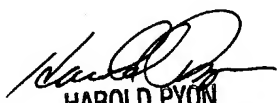
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ac

5/3/04



  
HAROLD PYON  
SUPERVISORY PATENT EXAMINER  
1772

5/5/04